Image Resizing
If you have a 16x24 image, can you resize it to 4x6 without distortion?

Is this proportional?

Set up proportion:

\[
\frac{16}{24} = \frac{4}{6}
\]

Solve:

\[
16 \times 6 = 24 \times 4 \\
96 = 96
\]

It is proportional, so there won’t be distortion.
• You have an 8x10 image. Name 3 other sets of dimensions you can resize this image to without distorting the image.
• (hint: think of equivalent fractions)

Examples: 4x5, 16x 20, 24x30
You have a rectangular image with dimensions of 18x27, and you have a 9x9 piece of photo paper on which to print your image. You want to make the image as large as possible. What will your new dimensions after resizing be?

Write a proportion: \[ \frac{18}{27} = \frac{h}{9} \]

Solve: \[ 18 \times 9 = 27 \times h \]
\[ 162 = 27h \]
\[ 6 = h \]

The largest image would be 6x9